

SEQUENCE LISTING

<110> FRED HUTCHINSON CANCER RESEARCH CENTER
UNIVERSITY OF WASHINGTON

<120> OLIGONUCLEOTIDE ARRAYS FOR HIGH RESOLUTION HLA TYPING

<130> 14538A-52-1PC

<140> PCT/US00/

<141> 2000-06-16

<150> 60/139,843

<151> 1999-06-17

<160> 141

<170> PatentIn Ver. 2.1

<210> 1

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, Location 5-24.

<400> 1

tcacaccctc cagagcatgt

20

<210> 2

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, Location 5-24.

<400> 2

tcacatcatc cagaggatgt

20

<210> 3

<211> 20

<212> DNA

10/01 8112

WO 00/79006

PCT/US00/16722

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, Location 5-24.

<400> 3

tcacacttgg cagacgatgt

20

<210> 4

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, Location 5-24.

<400> 4

tcacaccctc cagtggatgt

20

<210> 5

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, Location 5-24.

<400> 5

tcacacttgg cagaggatgt

20

<210> 6

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, Location 5-24.

<400> 6

tcacaccctc cagacgatgt

20

10/018112

WO 00/79006

PCT/US00/16722

<210> 7
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, Location 5-24.

<400> 7
tcacaccctc cagaatatgt

20

<210> 8
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, Location 5-24.

<400> 8
tcacatcatc cagagcatgt

20

<210> 9
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, Location 5-24.

<400> 9
tcacaccatc cagaggatgt

20

<210> 10
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, Location 5-24.

10/01 81 12

WO 00/79006

PCT/US00/16722

<400> 10
tcacatcatc caggtgatgt 20

<210> 11
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, Location 5-24.

<400> 11
tcacaccctc cagaggatgt 20

<210> 12
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 21-40.

<400> 12
atgtacggct gcgacgtggg 20

<210> 13
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 21-40.

<400> 13
atgtatggct gcgacctggg 20

<210> 14
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 21-40.

<400> 14

atgtttggct gcgacgtggg

20

<210> 15

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 21-40.

<400> 15

atgttaaggct gcgacgtggg

20

<210> 16

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 21-40.

<400> 16

atgtctggct gcgacgtggg

20

<210> 17

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 21-40.

<400> 17

atgtacggct gcgacctggg

20

<210> 18
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 21-40.

<400> 18
atgttggct gcgacctggg

20

<210> 19
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 21-40.

<400> 19
atgtatggct gcgacatggg

20

<210> 20
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 21-40.

<400> 20
atgtatggct gcgacgtggg

20

<210> 21
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 41-60.

10/01 81 12

WO 00/79006

PCT/US00/16722

<400> 21
gccccgacggg cgccctcctcc

20

<210> 22
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 41-60.

<400> 22
gccccgacggg cgccctcctcc

20

<210> 23
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 41-60.

<400> 23
gccccgacggg cgccctcctcc

20

<210> 24
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 61-80.

<400> 24
gcgggcatga ccagtacgcc

20

<210> 25
<211> 20
<212> DNA
<213> Artificial Sequence

10/01 8112

WO 00/79006

PCT/US00/16722

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 61-80.

<400> 25

gcgggataaa ccagtacgcc

20

<210> 26

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 61-80.

<400> 26

gcgggataaa ccagttagcc

20

<210> 27

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 61-80.

<400> 27

gcgggtataaa ccagttcgcc

20

<210> 28

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 61-80.

<400> 28

gcgggcatga ccagtccgcc

20

<210> 29

10/01 8112

WO 00/79006

PCT/US00/16722

<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 61-80.

<400> 29
gcgggtatga ccagtccgcc

20

<210> 30
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 61-80.

<400> 30
gcgggtacca ccaggacgcc

20

<210> 31
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 61-80.

<400> 31
gcgggcatga ccagttcgcc

20

<210> 32
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 61-80.

<400> 32

10/01 81 12

WO 00/79006

PCT/US00/16722

gcgggcataa ccagttcgcc

20

<210> 33
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 61-80.

<400> 33
gcgggtatga ccaggacgcc

20

<210> 34
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 61-80.

<400> 34
gcgggtataa ccagttagcc

20

<210> 35
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 61-80.

<400> 35
gcgggtatga ccagtacgcc

20

<210> 36
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

10/01 81 12

WO 00/79006

PCT/US00/16722

<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 81-100.

<400> 36

tacgacggca aagattacat

20

<210> 37

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon 3, location 81-100.

<400> 37

tacgacggca aggattacat

20

<210> 38

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 111-130.

<400> 38

gaggacctga gtcctggac

20

<210> 39

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 111-130.

<400> 39

gaggacctgc gtcctggac

20

<210> 40

<211> 20

10/01 81 12

WO 00/79006

PCT/US00/16722

<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 131-150.

<400> 40
cgccgcggac acggcggctc

20

<210> 41
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 131-150.

<400> 41
cgccgcggac accgcggctc

20

<210> 42
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 131-150.

<400> 42
cgccgcggac aaggcggctc

20

<210> 43
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 131-150.

<400> 43
cgccgcggac acggcagctc

20

<210> 44
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 131-150.

<400> 44
cgccgcggac accgcggctc

20

<210> 45
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 131-150.

<400> 45
cgcggcggac acggcggctc

20

<210> 46
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 151-170.

<400> 46
agatcaccca gctcaagtgg

20

<210> 47
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA

10/01 81 12

WO 00/79006

PCT/US00/16722

Exon Location 151-170.

<400> 47
agatctccca ggcgaagt²⁰tg

<210> 48
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 151-170.

<400> 48
agatcacccca ggcgaagt²⁰gg

<210> 49
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 171-190.

<400> 49
gaggcggccc gtgaggcg²⁰ga

<210> 50
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 171-190.

<400> 50
gaggcggccc gtgtggcg²⁰ga

<210> 51
<211> 20
<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 191-210.

<400> 51

gcagcgaga gcctacctgg

20

<210> 52

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 191-210.

<400> 52

gcaggacaga gcctacctgg

20

<210> 53

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 191-210.

<400> 53

gcagtggaga gcctacctgg

20

<210> 54

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 191-210.

<400> 54

gcagctgaga acctacctgg

20

<210> 55
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 191-210.

<400> 55
gcagcggaga acctacctgg

20

<210> 56
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 191-210.

<400> 56
gcagctgaga gcctacctgg

20

<210> 57
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 211-230.

<400> 57
aggcgagtg cgtggagtgg

20

<210> 58
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 211-230.

<400> 58
agggcctgtg cgtggagtgg 20

<210> 59
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 211-230.

<400> 59
agggcctgtg cgtggacggg 20

<210> 60
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 211-230.

<400> 60
agggcctgtg cgtggagtgcg 20

<210> 61
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 211-230.

<400> 61
agggcacgtg cgtggagtgcg 20

<210> 62
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 211-230.

<400> 62

agggcctgtg cgtggagggg

20

<210> 63

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 211-230.

<400> 63

aggacacctgtg cgtggagtcg

20

<210> 64

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 211-230.

<400> 64

agggcacacgtg cgtggagtgg

20

<210> 65

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 231-250.

<400> 65

ctccgcagac acctggagaa

20

<210> 66
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 231-250.

<400> 66
ctccgcagat acctggagaa

20

<210> 67
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 257-276.

<400> 67
ggacaagctg gagcgcgcgtg

20

<210> 68
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 257-276.

<400> 68
ggacacgctg gagcgcgcgg

20

<210> 69
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 257-276.

<400> 69
ggagacgctg cagcgccgg 20

<210> 70
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 1-20.

<400> 70
gctcccaactt catgaggat 20

<210> 71
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 1-20.

<400> 71
gctcccaactc catgaggat 20

<210> 72
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 21-40.

<400> 72
ttctacacct ccgtgtcccg 20

<210> 73
<211> 20
<212> DNA
<213> Artificial Sequence

10/018112

WO 00/79006

PCT/US00/16722

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 21-40.

<400> 73

ttctacaccg ccatgtcccg

20

<210> 74

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 21-40.

<400> 74

ttcgacacccg ccatgtcccg

20

<210> 75

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 21-40.

<400> 75

ttccacacccct ccgtgtcccg

20

<210> 76

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 21-40.

<400> 76

ttccacacccg ccatgtcccg

20

<210> 77

WO 00/79006

PCT/US00/16722

<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 21-40.

<400> 77
ttctacaccg ctatgtcccg

20

<210> 78
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 21-40.

<400> 78
ttctacaccg ccgtgtcccg

20

<210> 79
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 041-060.

<400> 79
gccccgtccgc ggggagcccc

20

<210> 80
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 041-060.

<400> 80

gcctggccgc ggggagcccc

20

<210> 81

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 041-060.

<400> 81

gcccggccgc ggggagcccc

20

<210> 82

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 061-080.

<400> 82

gcttcatctc agtgggctac

20

<210> 83

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 061-080.

<400> 83

gcttcatcac cgtgggctac

20

<210> 84

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

10/01 8112

WO 00/79006

PCT/US00/16722

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 061-080.

<400> 84
gcttcattgc agtgggctac

20

<210> 85
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 061-080.

<400> 85
gcttcatcgc agtgggctac

20

<210> 86
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Location 081-100.

<400> 86
gtggacgaca cccagttcgt

20

<210> 87
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Location 081-100.

<400> 87
gtggacggca cccagttcgt

20

<210> 88
<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Location 081-100.

<400> 88

gtggacgaca cgctgttcgt

20

<210> 89

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Location 081-100.

<400> 89

gtggacgaca cgcaagttcgt

20

<210> 90

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 111-130.

<400> 90

agcgacgcca cgagtccgag

20

<210> 91

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 111-130.

<400> 91

agcgacgccc cgagtccgag

20

<210> 92
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 096-115.

<400> 92
ttcgtgcggt tcgacagcga

20

<210> 93
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 096-115.

<400> 93
ttcgtgagggt tcgacagcga

20

<210> 94
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 121-140.

<400> 94
cgagtccgag agaggagccg

20

<210> 95
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA

Exon Location 121-140.

<400> 95
cgagtccgag gatggcgccc 20

<210> 96
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 121-140.

<400> 96
cgagtccgag gacggagccc 20

<210> 97
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA,
Exon Location 121-140.

<400> 97
cgagtccgag gaaggagccg 20

<210> 98
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PR Probe HLA
Exon Location 141-160.

<400> 98
cgggcgccat ggatagagca 20

<210> 99
<211> 20
<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PR Probe HLA
Exon Location 141-160.

<400> 99

cgggcgccgt gggtggagca

20

<210> 100

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PR Probe HLA
Exon Location 141-160.

<400> 100

cgggcgccgt ggatagagca

20

<210> 101

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 161-180.

<400> 101

ggaggggccg gaatattggg

20

<210> 102

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 161-180.

<400> 102

agaggggccc gagtattggg

20

10/01 8112

WO 00/79006

PCT/US00/16722

<210> 103
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 161-180.

<400> 103
ggaggggcccg gagcattggg

20

<210> 104
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 161-180.

<400> 104
ggaggggcccg gagtattggg

20

<210> 105
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 181-200.

<400> 105
accggaacac acagatctac

20

<210> 106
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 181-200.

<400> 106
accggAACAC acagatcttc 20

<210> 107
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 181-200.

<400> 107
accggAGAGAC acagatctcc 20

<210> 108
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 181-200.

<400> 108
accggAACAC acagatctgc 20

<210> 109
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 181-200.

<400> 109
accggAACAC acagatctcc 20

<210> 110
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 181-200.

<400> 110

accgggagac acggaacatg

20

<210> 111

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 181-200.

<400> 111

accgggatac acagatctcc

20

<210> 112

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 181-200.

<400> 112

accgggagac acagatctgc

20

<210> 113

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 181-200.

<400> 113

accgggagac acagaagtac

20

<210> 114
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 181-200.

<400> 114
acggggagac acggaacatg

20

<210> 115
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 181-200.

<400> 115
accggggagac acagatcttc

20

<210> 116
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR Probe HLA
Exon Location 201-220.

<400> 116
aaggcccagg cacagactga

20

<210> 117
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR Probe HLA
Exon Location 201-220.

10/01 8112

WO 00/79006

PCT/US00/16722

<400> 117
aagaccaaca cacagactta

20

<210> 118
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR Probe HLA
Exon Location 201-220.

<400> 118
aaggcctccg cgcagactta

20

<210> 119
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR Probe HLA
Exon Location 201-220.

<400> 119
aaggccaagg cacagactta

20

<210> 120
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR Probe HLA
Exon Location 201-220.

<400> 120
aaggccaagg cacagactga

20

<210> 121
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PCR Probe HLA
Exon Location 201-220.

<400> 121

aagcgccagg cacagactga

20

<210> 122

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:PCR Probe HLA
Exon Location 201-220.

<400> 122

aagacccaaca cacagactga

20

<210> 123

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 216-235.

<400> 123

actgaccgag agagcctgcg

20

<210> 124

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 216-235.

<400> 124

acttaccgag agaacacctg

20

<210> 125

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 216-235.

<400> 125

acttaccgag agagcctgcg

20

<210> 126

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 216-235.

<400> 126

actgaccgag aggacacctgcg

20

<210> 127

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 216-235.

<400> 127

acttaccgag aggacacctgcg

20

<210> 128

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 216-235.

<400> 128

actgaccgag tgaggcctgcg

20

<210> 129

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 216-235.

<400> 129

actgaccgag tggggcctgcg

20

<210> 130

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 216-235.

<400> 130

actgaccgag agaacacctgcg

20

<210> 131

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 231-250.

<400> 131

ctgcgcacccg cgctcccgcta

20

<210> 132

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 231-250.

<400> 132
ctgcggatcg cgctccgcta 20

<210> 133
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 231-250.

<400> 133
ctgcggaccc tgctccgcta 20

<210> 134
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 231-250.

<400> 134
ctgcggaacc tgctccgcta 20

<210> 135
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 231-250.

<400> 135
ctgcggaacc tgcgccgcta 20

<210> 136
<211> 20

<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 251-270.

<400> 136
ctacaaccag agcgaggacg

20

<210> 137
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon Location 251-270.

<400> 137
ctacaaccag agcgaggccg

20

<210> 138
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probes HLA
Exon 2.

<400> 138
gctcccactc catgaggtat

20

<210> 139
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probes HLA
Exon 2.

<400> 139
cggcctcgct ctggttgttag

20

10/01 8112

WO 00/79006

PCT/US00/16722

<210> 140
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon 2.

<400> 140
acccggtttc atttcagtt g

21

<210> 141
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Probe HLA
Exon 2.

<400> 141
cccactgccc ctggtacc

18